

Curriculum Vitae

Dipl.-Eng. Ph.D. Jana von Freyberg

Personal Information

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Education and Training

03/2015 - 06/2019	Postdoctoral Researcher, since 07/2019 Senior Teaching and Research Assistant At ETH Zurich in the group of Physics of Environmental Systems (Prof. James W. Kirchner)
Projects	<ul style="list-style-type: none">• Studying the relationships between short-term hydro-climatological and biogeochemical processes in a pre-Alpine catchment to better understand catchment water storage and streamflow generation• Development of a "lab in the field" for on-site, high-frequency measurements of stable water isotopes, main ions, nutrients and trace elements in streamwater and precipitation• Catchment inter-comparison analyses to identify the landscape and climatic controls on catchment storage and streamwater ages• Quantitative description of the role of snow distribution and snowmelt timing for groundwater storage and solute fluxes in a pre-Alpine watershed
10/2010–01/2015	PhD Thesis Université de Neuchâtel , Faculty of Science, Centre for Hydrogeology and Geothermics, Switzerland and Swiss Federal Institute of Aquatic Science and Technology (EAWAG), Department of Water Resources & Drinking Water, Hydrogeology Group, Switzerland; defense date: 14 January, 2015
Project	'Groundwater dynamics and streamflow generation in a mountainous headwater catchment - Process understanding from field experiments and modeling studies' (supervisor: Prof. Mario Schirmer)
Funding	Swiss National Science Foundation (SNSF) project No. 200021-129735/1
10/2004–01/2010	Studies of Applied Geosciences and Engineering Technical University of Berlin , Institute of Applied Geosciences, Germany Thematic priorities: Geology, Hydrogeology, Hydrology, Soil Science, Urban Water Management, Water Quality Management
Diploma thesis	'Sampling strategies for microbial analysis of saturated sediments' (Dr. Traugott Scheytt) Graduation as Diploma Hydrogeologist and Geo-Engineer with distinction, best semester grade (1.2)
06-09/2018	Research visits Todd Dawson Lab at the Department of Integrative Biology, University of California Berkeley , USA
	<ul style="list-style-type: none">• Designed and conducted lab experiments with custom-made membrane probes to study isotopic fractionation effects in soils due to plant water uptake• In collaboration with Erik Oerter at the Lawrence Livermore National Laboratory, USA
10/2012 & 04/2013	Prof. P. Suresh C. Rao , Group of Environmental Engineering, School of Civil Engineering, Purdue University , Indiana, USA
Projects	<ul style="list-style-type: none">• Analysed hydrologic connectivity and streamflow generating mechanisms based on measurements collected in the Rietholzbach catchment• Developed a numerical model to simulate streamflow generation with varying hydrol. connectivity
06/2014	Assistant Prof. Heather Gall , Dept. of Agricultural and Biological Engineering, Pennsylvania State University , USA
Projects	<ul style="list-style-type: none">• Presented my research at the department seminar series (invited talk)• Interpreted fate and transport of nutrients within a shallow aquifer at the Rietholzbach catchment• Established new contacts within the scientific community at the university and USDA-ARS

Awards and Fellowships

04/2020 - 04/2025	SNSF PRIMA fellowship for the project "Understanding active stream network dynamics and their effects on catchment hydrology and water quality", the host institute will be the Ecohydrology laboratory (Prof. A. Rinaldo), EPFL, Switzerland. Total award amount: 1'370'000 CHF
02/2018 - 02/2019	ETH Career Seed Grant for the project "Exploring isotope effects in soil water due to tree water uptake" to collaborate with Prof. Todd Dawson at University of California Berkeley and Dr. Erik Oerter at the National Livermore Laboratory, CA, USA. Total award amount: 30'000 CHF
01/2015 - 01/2016	I was chosen to participate in the 8th Swiss-German Mentoring Programme 'Mentoring Deutschschweiz' . The 1-year programme aimed at contributing to the advancement of women and equal opportunities in higher education through offering workshops and coachings.
01/2014	Outstanding Student Paper Award , AGU 2013 Fall Meeting, San Francisco, CA, USA
10/2012	Mobility grant in the SNSF-funded PhD project for collaborative research with the group of Prof P. Suresh C. Rao, School of Civil Engineering, Purdue University, IN, USA and the group of Assistant Prof. Heather Gall, Agricultural and Biological Engineering, Pennsylvania State University, PA, USA.; Total award amount: 13'200 CHF (ca. 13'270 USD)

Personal Skills and Competence

Employments

04/2008-02/2010	Student Researcher and Tutor at Technical University Berlin, Institute of Applied Geosciences, Chair of Hydrogeology, Prof. U. Tröger
06/2007-11/2008	Student Researcher at Helmholtz Centre Potsdam, German Research Centre for Geosciences (GFZ), Department ,Earth Surface Processes, Section ,Hydrology', Prof. B. Merz
12/2006-05/2007	Student Researcher at Helmholtz Centre Potsdam, German Research Centre for Geosciences (GFZ), Department ,Physics of the Earth', Section ,Seismic Hazard and Stress Field', Prof. Grünthal

Journal Referee

- . Agriculture, Ecosystems and Environment
- . Geothermics
- . Hydrology and Earth Systems Science (HESS)
- . Hydrogeology Journal
- . Hydrological Processes
- . Journal of Hydrology
- . Journal of Contaminant Hydrology
- . Water Resources Research

Professional References

James W. Kirchner	<i>Full Professor & Head of the Physics of Environmental Systems Group</i> ETH Zurich, Department of Environmental Systems Science, Universitätstr. 16, CH-8092 Zurich Phone: +41 (0)44 632 8018, E-Mail: kirchner@env.ethz.ch
Mario Schirmer	<i>Associate Professor & Head of the Hydrogeology Group</i> EAWAG, Water Resources and Drinking Water, Überlandstr. 133, CH-8600 Dübendorf; University of Neuchâtel, Centre for Hydrogeology, Rue Emile-Argand 11, CH-2000 Neuchâtel Phone: +41 (0)58 765 5382, Email: Mario.schirmer@eawag.ch
Traugott Scheytt	<i>Full Professor Hydrogeology</i> TU Freiberg, Gustav-Zeuner-Str. 12, 09599 Freiberg, Germany Phone: +49 (0)3731 39 2775, Email: Traugott.Scheytt@geo.tu-freiberg.de
Andrea Rinaldo	<i>Full Professor & Head of the Ecohydrology Laboratory</i> EPFL ENAC IIE ECHO GR C1 575 (Bâtiment GR), Station 2, CH-1015 Lausanne Phone: +41 (0)21 693 80 34, +(41)21 693 37 25, Email: andrea.rinaldo@epfl.ch

Heather E. Gall

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P. Suresh C. Rao

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